

NINETEENTH ANNUAL REPORT

OF

THE COMMISSIONERS

OF THE

MASSACHUSETTS NAUTICAL
TRAINING SCHOOL.

JANUARY 1, 1911.



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COMMISSIONERS
OF THE
MASSACHUSETTS NAUTICAL TRAINING SCHOOL.

GEORGE F. F. WILDE, *Chairman,*

REAR ADMIRAL, U. S. N. (RETIRED).

HON. JOHN READ, LATE U. S. N.

WILLIAM E. MCKAY.

WILLIAM H. DIMICK, *Secretary.*

The Commonwealth of Massachusetts.

MASSACHUSETTS NAUTICAL TRAINING SCHOOL.

To the Honorable Senate and House of Representatives of the Commonwealth of Massachusetts in General Court assembled.

The commissioners have the honor to submit their report of the operations of the school for the year 1910.

THE WORK IN GENERAL.

The Massachusetts Nautical Training School, on board the U. S. S. "Ranger," is experiencing one of the most prosperous periods in its history, there being more qualified applicants than the school can accommodate. Not since 1898, the year of the Spanish-American war, has there been so much interest taken in nautical education. The "Ranger," turned over to the State by the Navy Department last year, has proved to be, in most respects, well adapted for the work of the school. The practical work during the summer cruise, with the theoretical and vocational work of the winter term, has been satisfactory.

In the spring the training ship "Ranger" was equipped with a wireless telegraph set, a submarine signalling apparatus, a modern steam windlass, an electric generator and a new chart house. The wireless telegraph set was leased for the five months the ship was at sea. In the autumn, alterations, which were very necessary for the comfort and cleanliness of the crew, were made in the mess room of the petty officers and in the firemen's wash room. In order to more fully equip the "Ranger" for the work of training young men for the merchant marine, the commissioners propose to instal a modern steering engine and an electric refrigerating plant. The Navy Department has recently supplied the ship with a motor barge of the latest type, and the Bureau of Steam Engineering has informed the com-

mission that the "Ranger" has been placed on the list of vessels to be equipped with a navy wireless telegraph set when practicable.

From April 25 to April 28 the ship was in dock at the Boston Navy Yard, where minor repairs were made to the underbody. Permission was obtained from the Navy Department to store the deckhouse in a building at the Navy Yard, Boston, while the ship was at sea. The commissioners are indebted to Rear Admiral John C. Fremont, U. S. N., commandant of the yard, for his interest and assistance in this and other matters.

In view of the growing importance of electricity, more attention has been paid to this branch of the curriculum. The electrician has been rated as instructor in electricity, with an increased salary. In the work of instructing the cadets in wireless telegraphy good results have been obtained.

In an increasing degree shipping firms are co-operating with the commission in affording opportunities for graduates of the school. Many employers of officers, in making appointments, give the young men from this school the preference. About one-half of the officers on board the fourteen United States colliers are graduates of this school. The excellent progress made by the graduates at sea is of substantial interest and encouragement.

Most of the young men who are admitted to the school come from the high schools of the State, which indicates their character and qualifications. The seaman's vocation, however, is one that calls for pluck, determination and perseverance, and success in the merchant marine can be attained only by earnest, ambitious and virile young men.

The bulletins which are being issued several times a year are proving very effective in enabling the commissioners to present the different phases of the work in a concise and attractive form.

During the frequent visits of the commissioners to the school, they have been gratified to note the excellent condition of the school ship.

A PUBLIC LANDING.

The city of Boston is greatly in need of a public landing place. It is unfortunate that there is not such a landing where citizens and visitors to the city by water can embark and disembark. A

commodious public landing would be a distinct aid to the commissioners in carrying on their work, especially while the training ship is in the harbor preparing for the annual summer cruise. The private landing upon which we are obliged to depend at present is in many respects objectionable. It is hoped that we may soon have, at some accessible point, a safe, convenient and attractive municipal landing.

THE SUMMER TERM.

The spring entrance examination was held on Saturday, April 2, and the summer term commenced on May 17 with an enrolment of 100 cadets, and additional applications in excess of the capacity of the school. The annual inspection of the ship and school by the Governor and Council was made on May 27, in Boston harbor. During the inspection, and while the ship was under way, the cadets executed the following drills: sail drill, fire drill, physical drill and "man overboard" drill. In the latter, the cadets lowered the lifeboat from the davits and picked up the buoy in one minute and forty seconds. The cadets were addressed by His Excellency Eben S. Draper, Lieutenant-Governor Louis A. Frothingham and members of the commission.

The summer term this year was divided into two cruises. The first or European cruise extended from May 18 to August 17; the "Ranger" visiting Horta, Lisbon, Marseilles, Gibraltar, Madeira, Ponta Delgada and Halifax. During the second or home cruise, from August 18 to October 15, the ship cruised along the coast from Gloucester to Newport News. This itinerary made it possible to give the cadets additional instruction in working the ship and in handling the boats under oars and sail. The cadets visited one of the largest ship-building plants in the country at Newport News.

At Lisbon Comdr. William F. Low, U. S. N., received the following letter from Mr. Louis H. Ayme, the United States Consul General at that port:—

I take great pleasure in informing you that to my personal knowledge, and from reports brought to this consulate by various Portuguese gentlemen and others, the conduct of the boys of the vessel under your command, while on liberty in this city, was such as to elicit the

highest praise and commendation. The cleanliness and neatness of their uniforms, and the gentlemanly manner in which they behaved, was most favorably commented on.

The "Ranger" arrived in Boston on October 15, and on the following day the commissioners visited the ship. The cadets were welcomed home by the chairman in a short address.

The report of Comdr. William F. Low, U. S. N., superintendent of the school, on the annual cruise, is as follows:—

The cadets were taken aboard May 17, and on the following day left Boston for Provincetown.

A week was spent at Provincetown drilling and stationing the cadets, and the ship returned to Boston May 24.

The Governor inspected the ship on the 26th, and on June 2 she sailed for Horta. An itinerary of the cruise is enclosed, with dates of departure and arrival at each port, and days at port and at sea.

During the cruise the cadets were divided into quarter watches, and were on deck all day, available for studies and drills. Most of the cruise the ship carried but three seamen so that nearly all the ship's work was performed by the cadets. Opportunity has been afforded to all the cadets to become good helmsmen, and much attention and time have been given to the handling of boats under sails and oars.

The senior as well as the junior cadets had frequent exercise on the jackstays; in making knots, sennits, splices; in sailmaking, rigging shears for lifting heavy weights, and signalling with international flags as well as hand semaphores; and were also instructed in rules of the road and the buoyage system of harbors and rivers.

NAVIGATION.

The work during the summer cruise was practical. As far as possible all subjects taught during the winter's term were applied.

The senior cadets were given ample opportunity to perfect themselves in the following subjects: dead reckoning, course and distance by middle latitude, sailing and Mercator sailing, taking departure, setting courses, plotting positions, latitude and longitude by observation, azimuths, comparing chronometers, use of charts, sailing directions, tide table, light lists, and use and adjustment of instruments.

The junior cadets were instructed in boxing the compass, the elements of dead reckoning, use of hand lead and sounding machine, keeping the log, and the use of the various instruments of navigation. This practical experience will be of great help during the coming winter's term.

Each day, while at sea, the senior cadets were required to pass in the following: noon position by dead reckoning and observation, course

and distance made good since preceding noon, set and drift of current during preceding day, the compass error and derivation on one heading.

During the latter part of the cruise, while on our coast, cadets were given an opportunity of observing the various methods practiced in coastwise navigation, both by day and night.

The patent sounding machine was used constantly off the coast of Nova Scotia, where dense fogs were experienced.

No opportunity presented itself this summer to put the sub-marine bell-receiving apparatus to a practical test. The wireless apparatus afforded an easy and efficient means of receiving the exact time for chronometer comparisons.

MARINE ENGINEERING.

The cadets received practical instruction as follows:—

Senior Cadets.—Firing, water tending, oiling, care and operation while getting under way; running and coming to anchor after a run; examination of boilers, engines, pumps, dynamos and engines of same; with such practical repairs as have come up from time to time during the cruise, such as taking up lost motion in bearings and taking leads of same to determine clearance; valve setting for practice and correction of errors shown by indicator diagrams; finding dead centers of engines; general overhauling of both steam and water ends of pumps; the indicator, mode of operation; taking and working out diagrams for horse power by ordinates and planimeter (Coffin's averaging instrument); calculations for horse power by the common method and by logarithms; propeller slip and kindred problems; care and operation, with repairs, of evaporator and distillers; handling, checking and stowing of coal when coaling ship.

Junior Cadets.—Coal passing, firing, water tending, oiling; care and operation of evaporators and distillers; uses of valves and fittings, and tracing pipe lines.

COAL REPORT FROM MAY 18 TO OCTOBER 14.

	Tons.
Coal on hand and received,	960.9
Expended,	909.7
	<hr/>
Remaining on hand,	51.2
Expended as follows:—	
Galley,	25.6
Distilling,	45.8
Heating,	5.7
Dynamo and other auxiliaries,	234.6
Propulsion,	597.7
	<hr/>
Total,	909.7

ELECTRICAL WORK.

Junior Cadets.—Instruction in the use of electrical appliances aboard ships. Various faults, their detection and remedy; wiring, protective devices, types of lamps and fixtures, ship's lights, motors, generators, ventilating sets, etc., illustrated with apparatus. Wireless telegraph and submarine bell-receiving sets.

Senior Cadets.—Members of the engineering department were assigned successively to the operation of the electric plant, and had charge, under the supervision of the electrician, of the dynamos and lighting. They performed all the work of running the machines, made repairs to wiring, etc., removed troubles and kept the system working satisfactorily. Repairs were also made, as needed, to the wireless apparatus. A number of the cadets from both seamen and engineering divisions stood regular watches in the wireless room, taking and sending messages with passing ships and shore stations. Several are now equipped to occupy positions with the commercial companies. An opportunity to acquire the art by the use of learners' sets was accepted by a number of cadets not assigned to this work.

Individual instruction in electric engineering was given, outside of hours, to several cadets who wished to advance themselves along special lines.

MEDICAL DEPARTMENT.

Taking the cruise of 1910 as a whole, the health of the cadets has been very good.

Since arriving on our coast the health of the cadets has been exceptionally good, the daily attendance at sick call being the smallest for years, and a marked improvement in the general physical condition has been noted.

The air space between decks has been at all times sufficient, and all sanitary conditions have been excellent.

The accompanying table shows gains made, and the increase in weight is the greatest on the records of the school.

Course of instruction in first aid to injured, including how to act in presence of an emergency; the use of disinfectants; symptoms and treatment of burns, bruises, hemorrhages, wounds, sprains, fractures, dislocations, foreign bodies in eye, ear and throat, fainting, shock, sunstroke, starving, drunkenness, convulsions, smothering by gas, drowning, poisons, dog, snake and insect bites and poison ivy; bandaging and making of dressing and poultices.

	May.	October.	Gain.
Weight,	132 lbs.	140.3 lbs.	8.3 lbs.
Height,	5 ft., 7.15 in.	5 ft., 7.35 in.	.2 in.
Chest,	32.05 in.	32.80 in.	.75 in.
Chest expanded,	34.25 in.	35.60 in.	1.35 in.
Arm,	11.31 in.	11.61 in.	.3 in.
Abdomen,	29.50 in.	29.85 in.	.35 in.
Leg (calf),	12.65 in.	13.00 in.	.35 in.

Itinerary of Cruise of 1910.

May 17, cadets reported for cruise; May 18, Boston to Provincetown; May 24, returned to Boston; May 26, Governor's inspection; October 15, cadets left ship on leave.

Ports.	Left.	Arrived.	Distance (Miles).	Days in Port.	Days at Sea.
Boston-Horta,	June 2,	June 12,	2,011	3	10
Horta-Lisbon,	June 15,	June 19,	923	5	4
Lisbon-Marseilles,	June 25,	June 29,	1,006	7	5
Marseilles-Gibraltar,	July 6,	July 9,	713	5	4
Gibraltar-Funchal,	July 14,	July 17,	606	4	3
Funchal-St. Michaels,	July 21,	July 23,	536	2	2
St. Michaels-Halifax,	July 26,	Aug. 5,	1,887	10	10
Halifax-Gloucestcr,	Aug. 15,	Aug. 17,	370	7	2
Glooucester-Provincetown,	Aug. 24,	Aug. 24,	45	4	1
Provincetown-Mattapoisett,	Aug. 28,	Aug. 29,	137	3	1
Mattapoisett-Bristol,	Sept. 1,	Sept. 1,	45	4	1
Bristol-Newport,	Sept. 5,	Sept. 8,	380	8	3
Newport-Yorktown,	Sept. 16,	Sept. 16,	48	3	1
Yorktown-Solomon's Island,	Sept. 19,	Sept. 19,	85	10	1
Solomon's Island-Alexandria,	Sept. 29,	Sept. 30,	118	11	1
Alexandria-Boston,	Oct. 11,	Oct. 14,	661	-	3
			9,571	86	52

THE WINTER TERM.

The winter term commenced on Monday, November 28, with 103 cadets on the register.

The "Ranger" occupies the usual berth at the Marine Park, Commercial Street (between the Chelsea ferry and the Charles-town bridge), Boston.

Persons interested in the work of the school are cordially invited to visit the "Ranger" on any day excepting Saturday and Sunday, when the cadets are absent on home leave. Visitors will receive every attention, and the objects and advantages of the school will be fully explained by the officers.

The following are the officers and instructors now connected with the school: Comdr. William F. Low, U. S. N., superintendent and commanding officer; Boatswain John Danner, U. S. N., executive officer; Machinist John O'Neill, U. S. N., chief engineer; A. Russell Cushing, navigating officer; Boatswain Albert Seeckts, U. S. N., watch officer; Andrew J. Iverson, watch officer; Edmund L. Saunders, M.D., medical officer; Henry C. Fisher, instructor in electricity; Chief Yeoman Theodore C. Howe, U. S. N., paymaster and captain's clerk.

PERSONNEL.

July 1, 1910, Hon. John Read of Cambridge was reappointed a commissioner for three years.

Jan. 27, 1910, Rear Admiral N. M. Dyer, U. S. N., who was a commissioner of the school from April 22, 1903, to Jan. 30, 1906, died at his home in Melrose.

May 13, 1910, William J. Burns was appointed watch officer.

Aug. 26, 1910, M. A. Mackie was appointed paymaster and captain's clerk.

Aug. 31, 1910, Edward S. Groves resigned as paymaster and captain's clerk.

Aug. 31, 1910, William J. Burns resigned as watch officer.

Sept. 16, 1910, Andrew J. Iverson was appointed watch officer.

Sept. 16, 1910, M. A. Mackie resigned.

Sept. 17, 1910, C. F. Humphrey was appointed paymaster and captain's clerk.

Oct. 15, 1910, C. F. Humphrey resigned.

Dec. 15, 1910, Chief Yeoman Theodore C. Howe, U. S. N., was appointed paymaster and captain's clerk.

WORK OF THE GRADUATES.

Capt. James S. Howes, a graduate of the school in the class of 1900, has been placed in command of the merchant steamship "Berkshire." Capt. George E. Eaton, Wakefield, class of 1895, has been transferred from the lighthouse tender "Azalea" to the new steamer "Hibiscus," one of the largest and finest vessels in the lighthouse establishment. Capt. Louis E. Congdon, class of 1898, was given temporary command of the "Rio Grande." Capt. George F. Waite, class of 1895, has been appointed inspector of hulls, Norfolk, Va.

In a letter from the commander-in-chief of the Asiatic fleet, addressed to Rear Admiral L. C. Heilner, U. S. N., Supervisor of Naval Auxiliaries, Osborne E. McKay, Provincetown, class of 1902, chief officer of the naval collier "Nanshan," received the commendation of Rear Admiral John Hubbard, U. S. N., for excellent work in rescuing five men from a capsized boat; and the recommendation was made that he be given the next high vacancy that occurs in the auxiliary service.

Frederick W. Jones, Winchester, class of 1897, has recently been appointed acting nautical expert in the hydrographic office, Washington, five graduates of the school being employed in this capacity in the hydrographic office. Clarence E. Nutting, class of 1906, and Leander C. Clapp, class of 1903, are second lieutenants in the United States Marine Corps. Forrest D. Clark, class of 1899, is chief engineer of the turbine passenger steamer "Harvard," which has recently completed a trip to the Pacific coast. Andrew J. Iverson of Salem, class of 1904, has been appointed watch officer on board the "Ranger."

The following is an abstract from the register of graduates: —

Graduated.	NAME.	Residence.	Position.	Vessel.
1895	George E. Eaton, . .	Wakefield, . .	Captain, . .	"Hibiscus."
1897	Fred'k A. Sparks, . .	Provincetown, .	Captain, . .	"Machigonne."
1896	Joseph W. McGrath, ¹ .	Quincy, . . .	Captain, . .	"Discovery."
1900	James S. Howes, . .	Woods Hole, .	Captain, . .	"Berkshire."
1902	A. T. Luther, . . .	Swansea, . . .	Captain, . .	Government vessel, Panama Canal.

¹ Deceased.

Graduated.	NAME.	Residence.	Position.	Vessel.
1898	Louis E. Congdon, . .	Boston, . .	Captain, . .	"Rio Grande."
1896	Henry R. Bodge, . .	Wollaston, . .	Captain, . .	"St. Helens."
1901	Theodore H. Bicknell, .	Melrose, . .	Captain, . .	"Tarantula."
1902	Fred C. Seibert, . .	Greenfield, . .	First officer, .	"Vulcan."
1903	Robert B. Powers, . .	Brockton, . .	First officer, .	"Hannibal."
1897	Emery Rice,	Brighton, . .	First officer, .	"Manchuria."
1902	Osborne E. McKay, . .	Provincetown, .	First officer, .	"Nanshan."
1905	James A. Crocker, . .	Nahant,	First officer, .	"Indian."
1898	Carl E. A. Anderson, .	Roslindale, . .	First officer, .	"Arizonan."
1897	Willis Howes,	S. Yarmouth, .	First officer, .	"Wright."
1900	Alfred M. Cummings, .	Worcester, . .	First officer, .	"Vulcan."
1896	Alvin W. Haynes, . .	Somerville, . .	First officer, .	"Panama."
1901	John J. Coholan, . . .	S. Boston, . .	First officer, .	"Ajax."
1896	George R. Lauriat, . .	Medford, . . .	First officer, .	"James Henry."
1903	Benjamin O'Connell, .	Peabody, . . .	First officer, .	"Colon."
1902	Wm. I. O'Reilly, . . .	S. Boston, . .	First officer, .	"Queen."
1902	Herman T. Parker, . .	Rockport, . .	First officer, .	"Parthian."
1900	E. Newton Parker, . .	Greenfield, . .	First officer, .	"Nero."
1895	James E. Reardon, . .	Boston,	First officer, .	"Windber."
1895	Albert L. Warner, . . .	Waverley, . . .	First officer, .	"Eleazer W. Clark."
1899	Edward G. Smith, . . .	Boston,	First officer, .	"Coya."
1901	Robert W. Tucker, . .	Kendal Green, .	First officer, .	"Ohio."
1904	John F. Williamson, . .	Brockton, . . .	First officer, .	"Orchid."
1901	Charles D. Harrington, .	Cambridge, . .	First officer, .	"H. M. Plant."
1898	Harlowe Johnson, . . .	Mattapoisett, .	First officer, .	"Parthian."
1898	Eldon G. Freeman, . . .	Whitman, . . .	First officer, .	"Sequoia."
1900	Walter Andrew,	Jamaica Plain, .	Second officer, .	"Ligonier."
1897	H. W. G. Atkins, . . .	Holliston, . .	Second officer, .	"Adansi."
1903	Harry M. Bostwick, . .	Northbridge, .	Second officer, .	"Vulcan."
1899	Walter S. Lynch, . . .	Chelsea,	Second officer, .	"Liberty."
1902	Edwin J. Madden, . . .	Everett,	Second officer, .	"St. Louis."
1903	Mark Woodbury,	Townsend, . . .	Second officer, .	"City of Memphis."
1904	Edward C. Roberts, . .	Beverly, . . .	Second officer, .	"Windber."
1904	Leslie F. Holmes, . . .	E. Whitman, . .	Second officer, .	"Antilles."
1897	Charles W. Clift, . . .	Whitman, . . .	Second officer, .	"McClellan."
1897	Leonard F. Cox, ¹ . . .	Whitman, . . .	Second officer, .	"Alexander."
1898	Charles H. Kilmer, . . .	Somerville, . .	Second officer, .	"Leonidas."
1902	Harry E. Boesch, . . .	Wakefield, . .	Second officer, .	"Momus."

¹ Deceased.

Graduated.	NAME.	Residence.	Position.	Vessel.
1902	Arthur Jensen, . . .	Provincetown, .	Second officer, .	"Hannibal."
1903	Andrew B. Chase, Jr., .	New Bedford, .	Second officer, .	"Wm. L. Walker."
1905	Harry M. Maynard, . .	Winthrop, . . .	Second officer, .	"Mayflower."
1899	Adam M. Queen, ¹ . . .	Hyde Park, . . .	Second officer, .	"Howard."
1908	Eugene P. Shevlin, . . .	E. Boston, . . .	Second officer, .	"Azalea."
1897	Mina Dailey,	Rockport, . . .	Second officer, .	"Arthur Sewall."
1902	William M. Chisholm, . .	N. Attleboro', .	Second officer, .	- -
1907	Harry L. Chick,	Beverly,	Third officer, . .	"Justin."
1905	Harold H. Gridley, . . .	Dorchester, . . .	Third officer, . .	"Brutus."
1907	Elmer B. Small,	N. Truro,	Third officer, . .	"Prometheus."
1907	Walter L. Smith,	Ashburnham, . .	Third officer, . .	"Saturn."
1902	F. J. Butterfield,	Haverhill, . . .	Third officer, . .	Army Transport.
1906	William H. Lee,	Boston,	Third officer, . .	"Vestal."
1896	Harry M. Davie, ¹	Boston,	Third officer, . .	"Thomas."
1900	William B. Knight,	Hull,	Third officer, . .	"City of Seattle."
1903	Harold C. Rideout,	Concord,	Third officer, . .	"El Alba."
1907	William M. Gifford,	Woods Hole, . . .	Third officer, . .	"Cyclops."
1900	Joseph E. Gately,	Marlborough, . .	Fourth officer, . .	"St. Paul."
1905	Fred'k S. Walker,	Dorchester, . . .	Mate,	"Mayflower."
1897	Orison W. Woodbury, . . .	Lynn,	Mate,	"Ellesmere."
1902	A. Russell Cushing,	Dorchester, . . .	Navigation officer.	"Ranger."
1904	Andrew J. Iverson,	Salem,	Watch officer, . .	"Ranger."
1900	I. Clarence Bailey,	Kingston,	Boat keeper, . . .	"American" No. 1.
1899	Richard T. Blackford, . . .	Marblehead, . . .	- -	"Alice Black."
1895	Philip W. Lauriat,	Medford,	1st Lieut., U. S. R. C. S.	"Seneca."
1899	James A. Alger,	Reading,	2d Lieut., U. S. R. C. S.	"Seneca."
1900	John F. McGourty,	Worcester,	2d Lieut., U. S. R. C. S.	"Mohawk."
1906	William F. Towle,	Boston,	2d Lieut., U. S. R. C. S.	"Seneca."
1898	Franklin B. Harwood, . . .	Rockport,	3d Lieut., U. S. R. C. S.	"Bear."
1898	Clarence E. Wood,	Fall River, . . .	Ensign,	U. S. S. "Virginia."
1894	William H. Boardman, ¹ . .	Lawrence,	Midshipman, . . .	U. S. Navy.
1907	Thomas Baxter,	S. Dennis,	Midshipman, . . .	U. S. Navy.
1898	George F. Waite,	Winthrop,	Inspector of Hulls, .	Norfolk, Va.
1900	Gershom Bradford,	Duxbury,	Nautical expert, . .	Navy department.
1895	George A. Collie,	Worcester,	Nautical expert, . .	Navy department.
1897	Fred'k W. Jones,	Winchester, . . .	Nautical expert, . .	Navy department.
1897	Arthur W. Morey,	Greenfield,	Nautical expert, . .	Navy department.
1896	Charles S. Young,	Boston,	Nautical expert, . .	Navy department.
1906	Clarence E. Nutting, . . .	Cambridge,	2d Lieut.,	U. S. Marine Corps.

¹ Deceased.

Graduated.	NAME.	Residence.	Position.	Vessel.
1903	Leander A. Clapp, . .	Brockton, . .	2nd Lieut., . .	U. S. Marine Corps.
1899	Forrest D. Clark, . .	Dorchester, . .	Chief engineer, . .	"Harvard."
1900	Hollis M. Cornwall, . .	Melrose, . .	Chief engineer, . .	"Persian."
1896	Jas. H. B. Meehan, . .	Lowell, . .	Chief engineer, . .	"Vulcan."
1902	Daniel F. Butler, . .	N. Easton, . .	Chief engineer, . .	"Gloria."
1900	William Glover, . .	Wilmington, . .	Chief engineer, . .	"Iris."
1900	Norris R. Sibley, . .	Worcester, . .	Chief engineer, . .	"Frances Hyde."
1895	Charles H. Lincoln, . .	Gloucester, . .	Chief engineer, . .	"Aztec."
1900	Charles E. Lowe, . .	Roxbury, . .	Chief engineer, . .	"Mackinaw."
1900	Elmer P. Butterworth, . .	Foxborough, . .	Chief engineer, . .	"J. M. Guffey."
1898	Charles E. Rowe, . .	Lynn, . .	Chief engineer, . .	"Nanshan."
1901	Eugene I. K. Murphy, . .	Worcester, . .	Chief engineer, . .	Government vessel, Panama Canal.
1898	John C. Ganser, . .	Jamaica Plain, . .	Chief engineer, . .	"Caribbean."
1898	Everett S. Ransom, . .	Mattapoisett, . .	Chief engineer, . .	"Parthenia."
1895	Frank A. Berry, . .	Watertown, . .	Chief engineer, . .	- -
1899	Frank B. Davis, . .	Dorchester, . .	First engineer, . .	"Olivette."
1897	Augustus T. Holmes, . .	Ipswich, . .	First engineer, . .	"J. M. Guffey."
1898	Frank P. Killion, . .	Malden, . .	First engineer, . .	"Kanai."
1901	Robt. A. Patterson, . .	Brighton, . .	First engineer, . .	"Vulcan."
1904	Charles W. Bumpus, . .	Wakefield, . .	First engineer, . .	"Cape Ann."
1898	Wilbur S. Lamont, . .	Leominster, . .	First engineer, . .	"Pocomoke."
1900	J. J. Donahoe, . .	Cambridge, . .	First engineer, . .	"Oregon."
1905	Walter C. Lockhart, . .	Wakefield, . .	First engineer, . .	"Caesar."
1896	Forrest H. McIntyre, . .	Gloucester, . .	First engineer, . .	"Daniel Millard."
1900	James F. Rawdon, . .	Worcester, . .	First engineer, . .	"Tuscan."
1895	Michael D. Sullivan, . .	Boston, . .	First engineer, . .	"Enterprise."
1897	P. W. Kimpton, . .	Somerville, . .	Second engineer, . .	"Shawmut."
1903	Edward A. Mercer, . .	Cambridge, . .	Second engineer, . .	"Prometheus."
1903	James S. McGarry, . .	Shrewsbury, . .	Second engineer, . .	"El Paso."
1901	Sidney A. Maglathlin, . .	W. Bridgewater, . .	Second engineer, . .	"Arethusa."
1895	F. H. Stackpole, . .	Hyde Park, . .	Second engineer, . .	"City of Brockton."
1898	Arthur P. Stevens, . .	Nantucket, . .	Second engineer, . .	"Ponce."
1906	A. C. Caldwell, . .	Dorchester, . .	Second engineer, . .	"Ajax."
1900	Ressie E. Bowser, . .	N. Abington, . .	Second engineer, . .	"Nero."
1902	Augustus W. Hart, . .	N. Truro, . .	Second engineer, . .	"Chippewa."
1902	Ernest L. Saunders, . .	Brockton, . .	Second engineer, . .	"Hector."
1900	Earle P. Marshall, . .	N. Easton, . .	Second engineer, . .	"Uruguay."
1905	Thomas W. Chisholm, . .	N. Billerica, . .	Second engineer, . .	"Arethusa."
1901	David W. Warren, . .	Boston, . .	Second engineer, . .	"Melrose."

Graduated.	NAME.	Residence.	Position.	Vessel.
1904	Cecil L. McIntyre, . .	Upton, . .	Second engineer, .	"Carib."
1896	James O. Sargent, . .	Worcester, . .	Second engineer, .	"St. Louis."
1903	Rudolph Komenda, . .	Somerville, . .	Third engineer, . .	"Hannibal."
1907	Archie E. Bragg, . .	Woods Hole, . .	Third engineer, . .	"Hannibal."
1906	John C. Sheedy, . .	Malden, . .	Third engineer, . .	"Admiral Schley."
1906	Bradford N. A. Gladding, .	New Bedford, . .	Third engineer, . .	"Massachusetts."
1910	Ernest B. Wyatt, . .	Wakefield, . .	Third engineer, . .	"Vulcan."
1908	Arthur E. Whiton, . .	Wakefield, . .	Third engineer, . .	"Justin."
1907	Joseph R. Wier, . .	Saundersville, . .	Third engineer, . .	"Brutus."
1907	George H. Stickney, . .	Watertown, . .	Third engineer, . .	"Vestal."
1908	George H. Cameron, . .	Wakefield, . .	Third engineer, . .	"Leonidas."
1905	Charles F. Tarr, . .	Taunton, . .	Third engineer, . .	"Mars."
1908	Thomas B. Pellett, . .	Worcester, . .	Third engineer, . .	"Cyclops."
1906	Victor M. Foster, . .	East Boston, . .	Asst. engineer, . .	"Satellite."
1906	Michael J. Doherty, . .	Winthrop, . .	Asst. engineer, . .	Light vessel No. 90.
1906	Arthur G. Burbank, . .	Carver, . .	Asst. engineer, . .	Light vessel.
1904	Charles R. Brown, Jr., .	Dorchester, . .	Asst. engineer, . .	- -
1898	David R. Driver, . .	Weston, . .	Asst. engineer, . .	- -
1901	Frank A. Browne, . .	Westborough, . .	Asst. engineer, . .	- -
1898	Alfred E. Collins, . .	Amesbury, . .	Engineer, . .	"Adele."
1897	Edward J. Cogan, . .	Lynn, . .	Engineer, . .	"Carmelia."
1896	William Gourville, . .	Gloucester, . .	Engineer, . .	"Dreamer."
1900	Everett A. Adams, . .	Boston, . .	Engineer, . .	"Anderson."
1907	Philip B. Marcy, . .	Boston, . .	Engineer, . .	"Mohawk."
1909	William H. Wiggin, . .	Brookline, . .	Engineer, . .	"Gov. Endicott."
1898	Joseph E. Sheedy, . .	Reading, . .	2d Lieut., Eng., U. S. R. C. S.	"Thetis."
1897	Lorenzo C. Farwell, . .	Dorchester, . .	2d Lieut., Eng., U. S. C. R. S.	"Forward."
1897	Albert F. Patterson, . .	Townsend, . .	2d Lieut., Eng., U. S. R. C. S.	"Woodbury."
1898	John T. Carr, . .	Malden, . .	2d Lieut., Eng., U. S. R. C. S.	"Snohomish."
1896	Webb C. Maglathlin, . .	Bridgewater, . .	2d Lieut., Eng., U. S. R. C. S.	"Perry."
1906	Henry C. Roach, . .	New Bedford, . .	3d Lieut., Eng., U. S. R. C. S.	"Androscoggin."
1895	Edward F. Gavagan, ¹ . .	S. Boston, . .	Chief machinist,	"St. Paul,"
1898	Herbert E. Fish, . .	Mattapoisett, . .	Warrant machinist.	U. S. Navy.
1896	H. E. Kershaw, . .	Lawrence, . .	Warrant machinist.	U. S. Navy.
1906	C. Allan Holbrook, . .	Marlborough, . .	Machinist, . .	"Idaho."
1895	S. B. Gaylord, . .	Boston, . .	Machinist, . .	"Newark."
1905	Fred G. Carlton, . .	Maynard, . .	Machinist, . .	"New Jersey."
1904	C. George Dyson, . .	Billerica, . .	Electrician, . .	"Georgia."
1904	Joseph G. Whippen, . .	Lynn, . .	Electrician, . .	"Rhode Island."

¹ Deceased.

Graduated.	NAME.	Residence.	Position.	Vessel.
1905	Laurence G. Kelley, . .	Taunton, . .	Electrician, . .	"Illinois."
1905	John F. Kinnaly, . .	S. Boston, . .	Electrician, . .	"Vermont."
1906	Carroll L. Morgan, . .	Beverly, . .	Electrician, . .	"Connecticut."
1906	Louis H. Houghton, . .	Worcester, . .	Electrician, . .	"Missouri."
1906	William R. Dolan, . .	Worcester, . .	Electrician, . .	"Cleveland."
1907	Eugene E. Chaney, . .	Arlington, . .	Electrician, . .	"Tacoma."
1907	Louis L. LaMontagne, . .	Miller's Falls, . .	Electrician, . .	"Pilgrim."
1900	Howard F. Dow, . .	Lynn, . .	Electrician, . .	"Enterprise."
1903	Fred S. Garland, . .	Randolph, . .	Electrician, . .	"Alabama."
1908	Frederick W. Farquhar, . .	Lawrence, . .	Electrician, . .	"Relief."
1904	Charles A. Hill, . .	Melrose, . .	Electrician, . .	"Bay State."
1903	Guy H. Hudson, . .	Somerville, . .	Electrician, . .	"Alabama."
1902	John F. Murphy, . .	Worcester, . .	Electrician, . .	"Viper."
1902	William H. Connor, . .	Roxbury, . .	Electrician, . .	"Cæsar."

CADETS ADMITTED, GRADUATED, AND HONORABLY DISCHARGED, FROM 1893 TO 1910, INCLUSIVE.

	ADMITTED.		GRADUATED.		HONORABLY DISCHARGED.			Withdrawn, dismissed, dropped, transferred.
	Sea- manship Class.	Engineer Class.	Totals.	Sea- manship Class.	Engineer Class.	Totals.	Engineer Class.	Totals.
1893,	138	-	138	-	-	-	-	29
1894,	42	21	63	-	-	-	17	43
1895,	33	38	71	19	10	38	6	12
1896,	35	39	74	20	17	37	15	31
1897,	32	41	73	20	21	41	10	20
1898,	42	57	99	15	25	40	14	26
1899,	34	45	79	11	12	23	17	41
1900,	28	50	78	14	36	50	12	21
1901,	34	37	71	18	18	29	8	16
1902,	32	58	90	16	22	38	16	20
1903,	34	32	66	17	14	31	15	17
1904, ¹	-	-	60	16	29	45	5	31
1905, ¹	-	-	65	10	10	20	-	9
1906, ¹	-	-	50	16	19	35	-	18
1907, ¹	-	-	60	10	15	25	-	17
1908, ¹	-	-	45	8	9	17	-	9
1909, ¹	-	-	81	14	22	36	-	7
1910, ¹	-	-	54	6	15	21	-	16
	-	-	1,317	223	303	526	-	395
	-	-					-	297

¹ Beginning in 1904, the cadets upon entrance are unclassified until their second year.

STATISTICS OF CADETS.

Cadets admitted during the Year 1910.

Number of cadets in the school Jan. 1, 1910: —			
Seamanship class,		10	
Engineer class,		17	
Nautical cadets,		70	
Total,		97	
Applications received, 1910,		78	
Applicants examined,	71		
Failed to appear for examination,	7		
Examined,		71	
Failed to pass mental examination,	29		
Failed to pass physical examination,	5		
Failed mentally and physically,	4		
Passed examinations,	33		
Passed examinations,	33		
Re-examined mentally and passed,	22		
Re-examined physically and passed,	1		
	56		
Failed to qualify after passing examinations,	2		
	54		
Total number admitted to school during 1910,			54
Total number connected with school during 1910,			151

Cadets withdrawn during the Year 1910.

Total number graduated,		21	
Seamanship class,	6		
Engineer class,	15		
Total number honorably discharged,		16	
Total number graduated and honorably discharged,		37	
Dropped from roll,	4		
Withdrawn,	11		
Total number withdrawn and dropped,		15	
Total withdrawals during 1910,			52
Number of cadets in the school Jan. 1, 1911,			99
Seamanship class,	22		
Engineer class,	28		
Nautical cadets,	49		

MEMBERSHIP OF THE SCHOOL.

Graduating Class, April, 1910.

Badger, Leslie S.,	Wakefield.
Griswold, George F.,	Watertown.
Hoyle, Harold P.,	Millbury.
Lewis, Charles R.,	Dorchester.
Loundes, Howell S.,	Worcester.
Tumey, Charles H.,	Southbridge.
Wiley, Frederick B.,	Wakefield.
Wyatt, Ernest B.,	Wakefield.

Graduating Class, October, 1910.

Anderson, R. Wilbur,	Roslindale.
Barris, Edward R.,	Lowell.
Case, Paul,	Brockton.
Grover, Harold C.,	Stoneham.
Hutchinson, Chas. S.,	Peabody.
McMillen, Fredric,	Billerica.
Morris, Chester E.,	Springfield.
Older, Archibald W.,	Winthrop.
Sibley, George W.,	Worcester.
Stevenson, Eugene F.,	Spencer.
Sullivan, Russell H.,	Westfield.
Tewksbury, Allan W.,	Winthrop.
Tyler, Franklin K.,	Beachmont.

Class to graduate, April, 1911.

Aicardi, Angelo A.,	South Boston.
Bailey, Clifford,	Ludlow.
Bartlett, Jr., William M.,	Nantucket.
Coakley, Patrick S.,	Malden.
Dickens, William E.,	Roxbury.
Dexter, Harold S.,	Mattapoisett.
Downey, Frank L.,	North Easton.
Ela, Norris T.,	East Douglas.
Fulton, David J.,	Wollaston.
Foque, Edwin N.,	West Medford.
Gorham, William M.,	Winthrop.
Harrington, Luther E.,	Winthrop.
Hanson, Henry O. K.,	Neponset.
Holmes, George T.,	Brockton.
Hill, Jerome W.,	Chicopee.
Leavitt, Harold S.,	Roxbury.

Lockhart, George L.,	Wakefield.
Long, Albert W.,	Arlington.
Lynn, Walter P.,	Beverly.
Ober, Henry W.,	Everett.
Plummer, Charles C.,	Cambridge.
Phinney, Robert F.,	Roslindale.
Rich, Chester H.,	Roxbury.
Turnbull, James D.,	Bridgewater.
Vose, Raymond C.,	Cambridge.
Whittemore, Roy G.,	Malden.
Ware, Jr., Albert L.,	Cambridge.

Class to graduate, October, 1911.

Blanchard, Walter H.,	Gloucester.
Bickerstaff, Charles B.,	Nantucket.
Besse, Wesley F.,	South Hanson.
Chisholm, Joseph C.,	North Billerica.
Eddy, John C.,	Boston.
Ettinger, Horace G.,	Allerton.
Fornason, Charles F.,	Gloucester.
Hubbard, Guy R.,	Provincetown.
Johnson, George L. E.,	Worcester.
Lundergan, John P.,	Brookton.
MacLeod, Levi E.,	Gloucester.
Miller, Eugene W.,	East Saugus.
McArdle, Arthur,	Sandwich.
Marques, Alfred,	Charlestown.
Mendell, John D.,	Mattapoisett.
Routledge, Richard J.,	Waverley.
Russo, John A.,	Roxbury.
Shaw, Frederic J.,	Cambridge.
Shaw, Lloyd S.,	Hull.
Simpson, William O.,	Nantucket.
Sweetser, Daniel T.,	Haverhill.
Thorndike, Harvey M.,	Swampscott.
White, Samuel D.,	Hyannisport.

Class to graduate, April, 1912.

Ainsworth, James M.,	Fall River.
Acorn, Albert H., Jr.,	Quincy.
Birdsall, John A.,	Melrose.
Brewster, Walter L.,	Somerville.
Cavanaugh, Richard J.,	New Bedford.
Ertel, Harold L.,	Longmeadow.
Fawcett, James D.,	Dorchester.

Horton, Chester A.,	Somerville.
Hughson, Caleb W.,	Mattapan.
Howard, Clarence L.,	Boston.
Morse, Chester L.,	Franklin.
Moore, Edward A., Jr.,	Forest Hills.
O'Donoghue, William H.,	Roxbury.
O'Connell, Richard K.,	North Easton.
Perkins, Alexander G., Jr.,	Newburyport.
Preston, Frank M.,	South Byfield.
Quinn, Charles W.,	Pittsfield.
Shippey, Carlyle E.,	Pittsfield.
Thompson, John W.,	Marion.
Vlass, Roy L.,	Marlborough.
Winslow, Harold S.,	Canton.

Class to graduate, October, 1912.

Buckley, Daniel G.,	Gloucester.
Bickerstaff, Richard C.,	Nantucket.
Burns, Herbert A.,	New Bedford.
Blair, James R.,	Somerville.
Cahoon, David W.,	Siasconset.
Cahoon, Kenneth E.,	West Tisbury.
Cornell, Charles B.,	Medford.
Crocker, John W.,	Nahant.
Culley, Albert W.,	Fitchburg.
Davison, George R.,	Springfield.
Daniel, Joseph M.,	Osterville.
Eastman, Russell A.,	West Dennis.
Folger, Ellenwood,	Siasconset.
Gray, Robert M.,	Melrose Highlands.
Hamilton, William A.,	Cliftondale.
Kenney, Philip B.,	Danvers.
Merrill, Norman E.,	Walpole.
Matthews, Fred I.,	Boston.
Marks, John M.,	Gloucester.
McGowan, Francis J.,	Somerville.
Olenick, Paul M.,	Brockton.
Racicot, Louis H.,	Lowell.
Sylvaro, Joseph B.,	Nantucket.
Smith, Ralph N.,	Worcester.
Scott, Frederick G.,	Boston.
Swift, Henry M.,	Roxbury.
Turnquist, Henry E.,	Roxbury.
Wheeler, Blair S.,	Melrose.

APPROPRIATIONS.

The appropriations for the school for the fiscal year 1910, from Dec. 1, 1909, to Nov. 30, 1910, are here accounted for as follows:—

Current Expenses.

Appropriation,	\$60,000 00
Expended:—	
Pay roll,	\$28,123 96
Provisions,	12,107 17
Text-books, stationery and printing,	691 72
Seamanship department,	3,101 42
Engineering department,	9,079 69
Repairs,	4,377 44
Miscellaneous,	2,504 71
Total amount expended,	<hr/> 59,986 11
Balance unexpended,	\$13 89

Office Expenses.

Appropriation,	\$5,000 00
Expended:—	
Salaries,	\$2,882 07
Advertising,	811 63
Printing,	366 71
Commissioners' expenses,	292 00
Stationery and postage,	331 80
Miscellaneous,	284 57
Total amount expended,	<hr/> 4,968 78
Balance unexpended,	\$31 22

Respectfully submitted,

GEORGE F. F. WILDE,

REAR ADMIRAL, U. S. N. (RETIRED).

HON. JOHN READ, LATE U. S. N.

WILLIAM E. MCKAY.

Boston, Jan. 1, 1911.

59986.11
4968.78
64954.89

FEDERAL AND STATE LEGISLATION.

AUTHORITY OF THE UNITED STATES.

CHAPTER 339, JUNE 20, 1874.

AN ACT TO ENCOURAGE THE ESTABLISHMENT OF PUBLIC MARINE SCHOOLS.

That the secretary of the navy, to promote nautical education, is hereby authorized and empowered to furnish, upon the application in writing of the governor of the State, a suitable vessel of the navy, with all her apparel, charts, books and instruments of navigation, provided the same can be spared without detriment to the naval service, to be used for the benefit of any nautical school or college having a branch established at each or any of the ports of New York, Boston, Philadelphia, Baltimore, Norfolk, San Francisco, Washington, Charleston, Savannah, Mobile, New Orleans, Baton Rouge, Galveston, and in Narragansett Bay (Acts, 1881), upon the condition that there shall be maintained at such port a school, or branch of a school, for the instruction of youths in navigation, seamanship, marine enginery and all matters pertaining to the proper construction, equipment and sailing of vessels, or any particular branch thereof.

And the president of the United States is hereby authorized, when in his opinion the same can be done without detriment to the public service, to detail proper officers of the navy as superintendents of or instructors in such schools: *provided*, that if any such school shall be discontinued, or the good of the naval service shall require it, such vessel shall be immediately restored to the secretary of the navy, and the officers so detailed recalled; and *provided, further*, that no person shall be sentenced to or received at such schools as a punishment, or commutation of punishment, for crime.

AUTHORITY OF THE STATE OF MASSACHUSETTS.

CHAPTER 45, REVISED LAWS, AS AMENDED BY CHAPTER 171, ACTS OF 1903.

THE NAUTICAL TRAINING SCHOOL.

SECTION 1. There shall be a board of commissioners of the Massachusetts nautical training school consisting of three citizens of the commonwealth, one of whom shall annually, before the first

day of July, be appointed by the governor, with the advice and consent of the council, for a term of three years from said first day of July.

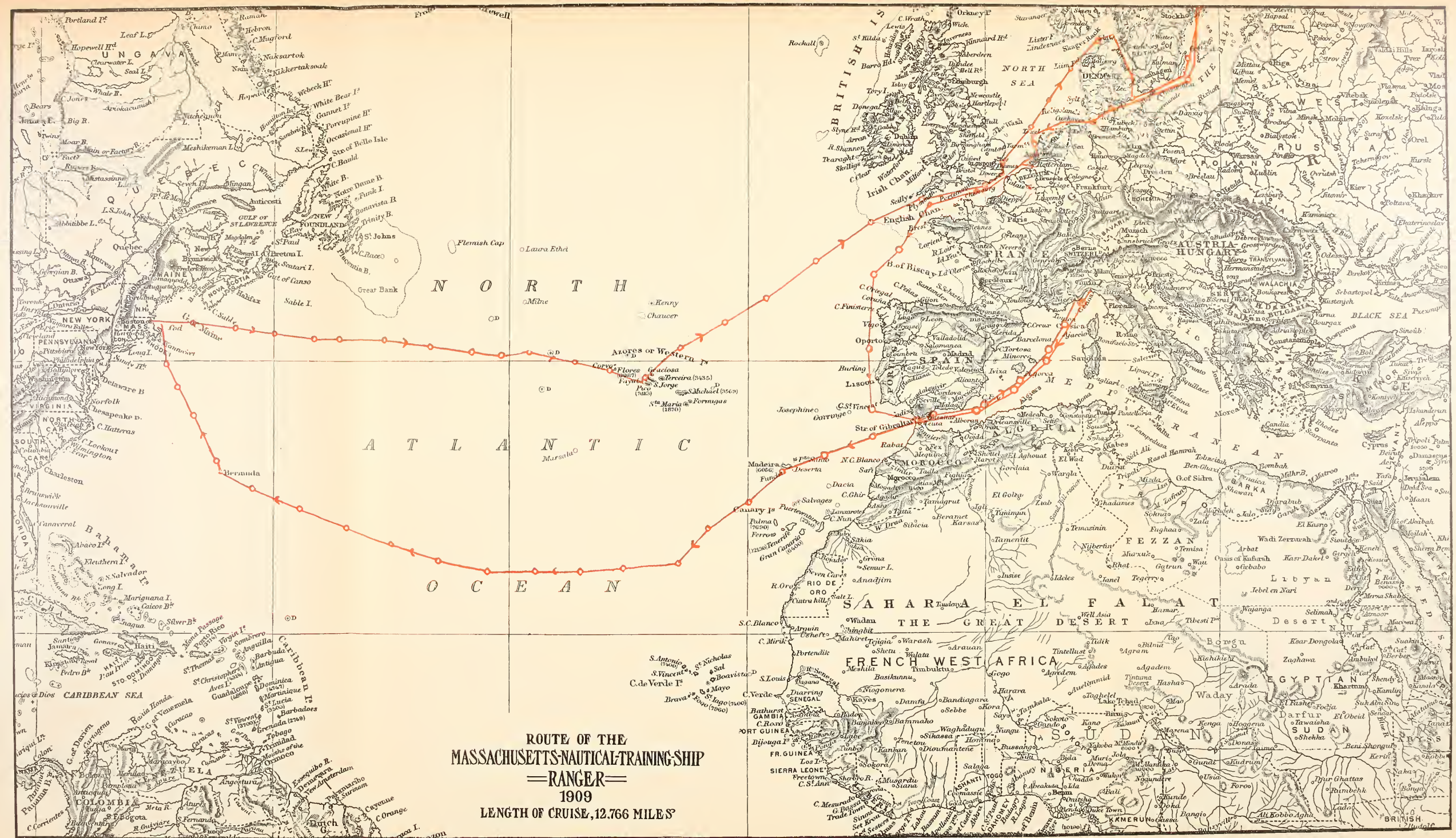
SECTION 2. Said commissioners shall serve without compensation, but they shall be reimbursed by the commonwealth for all expenses actually incurred by them in the performance of their official duties.

SECTION 3. They shall provide and maintain a nautical training school for the instruction and training of pupils in the science and practice of navigation, shall provide accommodations for the school on board a proper vessel, purchase and provide books, stationery, apparatus and supplies needed in the work of the school, appoint and remove instructors and other necessary employees, determine their number and compensation, fix the terms and conditions upon which pupils shall be received and instructed in the school and be discharged or dismissed therefrom, establish all regulations necessary for its proper management and shall from time to time provide for cruises in or from the harbor of Boston.

SECTION 4. They may receive from the United States government, and use for the accommodation of the school, such vessels as the secretary of the navy may detail.

SECTION 5. They may annually expend such sum as the general court may from year to year appropriate, which shall be paid by the commonwealth; and they shall annually submit an estimate of the expense required in making cruises in or from the harbor of Boston, and the amount of said estimate, after approval by the governor and council and subject to the provisions of chapter six, shall be advanced to the commanding officer of the vessel detailed therefor, who shall give a bond in the sum of ten thousand dollars, with sureties approved by the governor and council, for its proper disbursement. Said advance shall not exceed ten thousand dollars for six months, and shall be accounted for by properly approved vouchers within thirty days after the termination of said cruises.

SECTION 6. They shall annually, in January, report to the general court a detailed statement of all moneys appropriated and expended during the preceding year for the nautical training school, stating the results of the work during such year and making any necessary recommendations.





The Massachusetts Nautical Training Ship "Ranger," leaving Boston harbor on the summer cruise.